

# Generator 20kVA

Zone2 Rated

DNVGL2.7-1/EN10855

The Generator has been designed for wireline operations where an independent power supply is required. The frame incorporates forklift pockets and lifting padeyes for crane handling.

A wide range of generator Zone2 and certified DNVGL 2.7-1 / EN10855, from portable 10kva up to 400kva can be manufactured.

A wide range of  
stand-alone power  
generators for hazardous  
area zone2.

## Diesel Genset 20kVA Zone2

- Diesel engine ATEX water cooled Perkins 404D-22TG or equivalent 26.7kW @ 1500rpm / 31.7kW @ 1800rpm
- Spring starting system (air & electrical starter optional)
- Diesel Engine Protection EN1834-1 ATEX94/9/EC
- Water cooled exhaust manifold and heat exchanger for T3=200deg
- Inlet flame trap for IIB operation
- Inlet shut down valve and fuel shut down
- Exhaust flametrap
- Crankcase ventilation flametrap
- Antistatic fan belts
- Spark arrestor
- High water coolant temperature shut down at 100deg C
- High exhaust gas temperature shut down at 200deg C-T3
- Low oil pressure shut down at 0.8bar
- Overspeed valve shut down
- Screw fitting oil dipstick/ filter cap
- Brushless alternator twin bearing MIRETTI (original Mecc Alte alternator ECP32-4L/4B)
- Connectors CEAG 240VAC 1-Phase and 400VAC 3-Phase
- Totally enclosed TEFC air cooled IP55 non sparking
- Voltage Regulation AVR
- ExnA/BIIT3, Atex 3G
- Class H insulation continuously rated and twin bearing
- Control box ATEX Zone2 (brand Stahl/ Marechal)
- MCCB/ ELCB 30mA
- Clearly laid out ergonomic anodized aluminium control panel with engine speed/ oil pressure/ oil temperature/ coolant temperature/ exhaust temperature/ air pressure gauges and hour meter
- Protection for all drive belts
- Sound attenuated protection (doors)
- Skid mounted frame structure certified DNVGL2.7-1/ EN10855

## Dimensions & Weight

Dimension (L x W x H)	m	1.90 x 1.05 x 1.60	ft	6.23 x 3.44 x 5.25
Weight	kg	1800	lbs	4000



# Specifications

## General

Lifting Frame Standard	Sound Level @ 1 meter	Starting System	Paint Coating	Sling Set
DNVGL 2.7-1 BV	85 - 95 dBa	Spring Starter (pre-engaged, ATEX approved)	Hempadur Zinc 15360	BV approved with Crosby shackles

## Engine

Manufacturer Model	Power @ 1500rpm / 1800rpm	Fuel Type	Turbo	Air Intake	Paint Coating
Perkins Electropak 404D-22TG with Full Miretti Engine Protection System	26.7kW / 31.7kW	Diesel (with integrated tank for 8 hours full load running) Fuel Consumption: 8.3L/Hour Max Tank Capacity: 100L	Yes	Chalwyn/Miretti	TDS 1505 Epoxy HR

## Alternator

Manufacturer Model	Output Power	Output Frequency	Output Voltage	Power Factor	Standard Conformity	Paint Coating
MeccAlte ECP32-4L/4B	20kVA (16kW)	50Hz (option 60Hz)	400VAC 3-Phase 240VAC 1-Phase	0.8	IEC EExn IIA T3 ATEX 3G Zone 2	TDS 1505 Epoxy HR

## Engine Control

Manufacturer	Engine Parameters	Engine Control	Options
Wilitec	Water temperature gauge Exhaust temperature gauge Oil pressure gauge	Fuel shut down Overspeed valve shut down	Engine Controller & Display Electrical sensors &

## Electric Control Panel

Manufacturer	Earth Fault Protection	Electrical Outputs Monitor	Options
CORTEM	ELCB 30mA	Ex d panel box with protection system and indicator: <ul style="list-style-type: none"> <li>1 analog volt meter 0-500 V, with selector switch</li> <li>1 analog ammeter 0-50 A, with selector switch</li> <li>1 analog frequency meter 62Hz</li> </ul> Electrical Protection: <ul style="list-style-type: none"> <li>Main protection MCCB 40A with ELCB/RCD 30mA</li> <li>1 MCB 32A, 4P, for 3 phase outlet protection</li> <li>1 MCB 16A, 2P, for 1 phase outlet protection</li> </ul>	Alternator Controller & Display
Connectors		Ex d e outlet sockets: <ul style="list-style-type: none"> <li>1 socket, 3P+N+PE, 380 – 415 V, 32 A</li> <li>1 socket, 1P+N+PE, 220 – 240 V, 16 A</li> </ul>	

## System includes:

- High water coolant temperature shut down at 100deg C
- High exhaust gas temperature shut down at 200deg C-T3
- Low oil pressure shut down at 0.8bar
- Overspeed valve shut down
- Zone2 kit Electrical Version Miretti (including battery/battery isolator/charging alternator)
- Option starter : Air - Hydraulic - Electrical
- Option enclosure sound proof
- Option engine marine type



certificate by



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